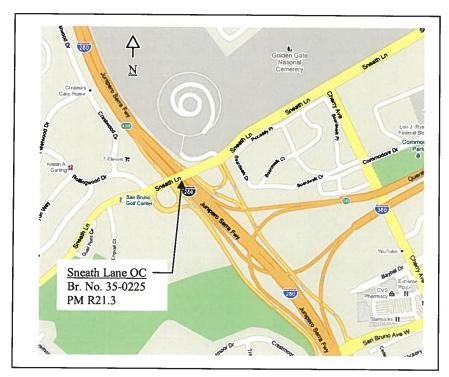
# PROJECT SCOPE SUMMARY REPORT (Seismic Restoration)



On Route _	280 in San Mateo County	
	In the City of San Bruno at PM R21.3	

I have reviewed the right of way information contained in this Project Scope Summary Report-Seismic Retrofit and the R/W Data Sheet attached hereto, and find the data to be complete, current, and accurate:

MARK L.	WEAVER
MARK WEAVER, DEP	UTY DISTRICT DIRECTOR - RIGHT OF WAY AND LAND
	SURVEYS
APPROVAL RECOMMENDED:	mos
	PATRICK K. PANG, PROJECT MANAGER
APPROVED:	1 Pija fail 9-16-11
	BIJAN SARTIPI, DISTRICT DIRECTOR DATE
	DATE DATE

This Project Scope Summary Report-Seismic Restoration has been prepared under the direction of the following registered civil engineer. The registered civil engineer attests to the technical information contained herein and the engineering data upon which recommendations, conclusions, and decisions are based.

Choon - Kaw Shih
CHOON-JIAW SHIH, REGISTERED CIVIL ENGINEER

9/15/2011 DATE



Reviewed by:

PATRICK K. PANG

OFFICE CHIEF, ADVANCE PLANNING

9/15/11 DATE

# PROJECT SCOPE SUMMARY REPORT (Seismic Restoration)

# 1. INTRODUCTION

This Project Scope Summary Report (PSSR) (Seismic Restoration) is being prepared to program, fund, and schedule a seismic retrofit project for the Sneath Lane Overcrossing (OC) (Br. No. 35-0225).

This project falls under the SHOPP Bridge Seismic Restoration Program (Code 201.113). The primary purpose of this program is to repair seismic deficiencies of existing bridges not identified in the Seismic Retrofit Phase I Program. This program is to provide bridge restoration when the restoration is primarily for seismic purposes. Bridges being upgraded or rehabilitated for other purposes, which also have a secondary seismic benefit, are to be covered by the initiating program.

# 2. RECOMMENDATION

Sneath Lane OC was determined to be potentially vulnerable during a seismic event. Seismic retrofitting would improve its resistance to expected earthquakes and minimize the potential for collapse. It is recommended that this project be programmed in the 2012 SHOPP (Program Code 201.113).

# 3. LOCATION AND PROBLEM

Sneath Lane OC is a concrete deck bridge located along I-280 at PM 21.3 in the City of San Bruno, San Mateo County. Sneath Lane connects I-280 and Route 35 (Skyline Blvd) to the west and I-280 and Route 82 to the east. The overcrossing was built in 1971 and carries two 12-foot wide lanes and 2-foot wide shoulder and a 6-foot wide sidewalk in each direction. It is 360 feet long, 67 feet 4 inches wide, and 4 feet 6 inches in depth. The bridge is a four-span structure consists of cast-in-place/prestressed box girders (9 cells) on reinforced concrete (RC) 2-column bents and RC diaphragm abutments. The bents are founded on 6.0-foot diameter concrete pile and the abutments are founded on 45-ton concrete piles. In March of 2007, the Office of Earthquake Engineering reviewed the inventory of state owned bridges for potential seismic vulnerabilities. As a result of this review, this bridge was found to be seismically deficient and was recommended for seismic retrofit.

### 4. PROPOSALS

The following work is recommended for Sneath Lane OC:

Seismic Retrofit with steel casings fastening to all columns

 Re-enforce box girders with high-strength rods longitudinally and transversely through each cell

The detailed retrofit work is shown on the attached Advance Planning Study (APS) drawings (Attachment C) provided by Headquarters Division of Engineering Services, Office of Structure Design. Other work associated with the proposed retrofit includes, but is not limited to, the construction of soffit access openings for bays on each side of the bent caps and deck access opening from two ends of the bridge for installation of prestressed rods.

# 5. COST ESTIMATES

Preliminary project cost estimate summary: (See Attachment F for detailed cost estimate of the components.)

Roadway Work	\$ 504 K
Structure Work	\$ 664 K
R/W & Utilities	\$ 5 K
Total Cost Estimate	\$1173 K (current year 2011)

Escalation cost (annual inflation rate of 4% to mid-year construction-July 2014): \$1,320 K.

**Project Support:** 

Proposed		District		I	Engineering	Service Co	enter PY'S	}	FY	Other
Program		PY'S		Struc	ctures	METS an	d Others	Office	Total	Cost
FY	Design	R/W	Constr	Design	Constr	Design	Constr	Engr	PY'S	(\$)
12/13	1.85	0.04		0.5					2.39	
13/14			0.4		0.4			0.16	0.96	
14/15			0.4		0.4			0.12	0.92	
TOTAL E	STIMATI	ED PRC	JECT PY	'S AND O	THER SU	PPORT CO	STS:		4.27	\$*

# 6. PROJECT SCHEDULE

Project milestone schedule is planned as follows:

PID/PAED	September	2011
Structure PS&E	February	2013
District PS&E	July	2013
R/W Certification	July	2013
RTL	October	2013
Construction Start	January	2014
Construction Completion	January	2015

Dates are tentative and subject to change due to project priorities and availability of funds from the SHOPP.

# 7. PROJECT FACTORS

### **Environmental:**

This project is categorically exempt under Section 15061(b) (3), Class 1-C of the California Environmental Quality Act (CEQA) and Categorically Excluded under National Environmental Policy Act (NEPA). The Categorical Exemption/Exclusion Determination Sheet is included as Attachment D. One of the conditions of approval is to place exclusion nettings over the drainage holes on the bottom of the bridge structure three months before the start of any construction. In addition, any staging or storage area identified for construction use must be reviewed by the Biological Sciences and Permits Office to ensure the project will not affect any threatened or endangered species or any wetlands in the project area. The cost of compliance is included in the cost estimation.

# Right of Way (R/W):

There is no additional right of way anticipated to for this project. A Right of Way Data Sheet dated April 5, 2011, is included in Attachment E.

### Railroad:

There is no railroad involvement in this project.

### **Utilities:**

Verification of utilities will be required. Potholing may be necessary if indicated by the results of the verification. However, no utility relocations are anticipated.

# **Traffic Control:**

Any work adjacent to/over existing travel lanes will require traffic control which will include temporary lane closures, temporary railing (Type K) for shoulder closures, and a Traffic Management Plan.

Detours, one-way traffic control, ramp closures, and mainline lane closures will be required for installation of high strength rods within deck cells.

# Water Quality:

A Storm Water Data Report was approved on May 3, 2011; the signature page is included in Attachment G.

# **Design Exceptions:**

The existing bridge shoulder width is a nonstandard (2 feet) feature in accordance with the standards set forth in the *Highway Design Manual* (HDM).

HDM 208.1(b), Bridge Width, requires that the clear width of bridges shall equal the full width of the traveled way and paved shoulders on the approaches with the exception when the approach shoulder width is less than 4 feet, the minimum offset on each side shall be

4 feet. The existing approach pavement and the existing bridge deck are delineated without shoulders.

HDM 308.1, City Streets and County Roads, requires a local facility that crosses over or under a freeway and connects to a state facility (such as ramp terminal intersections), the minimum design standards for the cross section of the local facility shall be at least equal to those for a conventional highway with the exception that the outside shoulder width shall match the approach roadway, but not less than 5 feet.

To satisfy the above standards, the structure would need to be widened by 4 feet. Structure widening or replacement will not be proposed as it is beyond the scope of the Seismic Retrofit SHOPP program. Since this project will not create any permanent impact on the geometric design, a *Memo to File* was prepared in lieu of a *Fact Sheet Exception to Mandatory Design Standards* to document the above exception and it was approved by the Michael W. Thomas, Design coordinator for Division of Design, on September 1, 2011.

# Risk Management:

Possible risks to the completion of the project are indicated in the Risk Management Plan (Attachment I). There is a low risk that biological mitigation areas will be identified. If this happens, then the project location will need to undergo cultural resources review and limited construction window might have to be established, and thus result in project delay. There is also a medium risk about the objections of the community to the lane closure during weekdays. If that happens, it might be necessary for lane closures during construction to take place at night or on weekends.

# Transportation Management Plan (TMP):

Transportation Management Plan Data Sheet was signed on January 7, 2011 and is included in Attachment J. A TMP for the project will be developed and refined during the PS&E and be supported by detailed traffic studies to evaluate traffic operations. The need for necessary lane/ramp closures during off-peak hours or at night will be identified, as required. The TMP will include press releases to notify and inform motorists, business, community groups, local entities, emergency services, and politicians of upcoming closures or detours. Various TMP elements, such as portable Changeable Message Signs and CHP Construction Zone Enhanced Enforcement Program, may be utilized to alleviate and minimize delay to the traveling public.

# Landscaping:

Landscaping removed for the construction of this project will be replaced.

### Value Analysis:

Since total project cost is below \$25 million, a value analysis is not deemed necessary in this phase.

# **Title IV Considerations:**

The California Department of Transportation, under Title VI of the Civil Rights Act of 1964 and related statutes, ensures that no person in the State of California shall, on the grounds of

race, color, national origin, sex, disability, and age, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity it administers.

Most of the movement in the project area involves the use of motorized vehicles. There are no locations within the area that are designated as an access facility for handicapped or non-motorized vehicles. As such, it is not expected that the proposed work will impact any of these types of facilities.

### 8. PROJECT FUNDING

It is proposed that this project be funded from the 2012 SHOPP Bridge Seismic Restoration Program (201.113), following PSSR approval. The estimated construction capital cost for this project is \$1,168,000 and the R/W cost is \$5,000.

# 9. PROECT PERSONNEL

Patrick K. Pang

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Office Chief, Office of Advance Planning

Robert Blanco

(510) 286-5676

Branch Chief, PSR II, Office of Advance Planning

**Choon-Jiaw Shih** 

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Majid Madani

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HQ Technical Liaison Engineer, DES Structure Design

Takako Fujioka,

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HQ Bridge Program Advisor, DES Structure Maintenance & Investigations

Howell Chan

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Branch Chief, Environmental Analysis

# 10. PROJECT REVIEWS

In addition to reviews performed by the following staff, this document was circulated in draft form to appropriate functional units and Headquarters staff on June 10, 2011.

Patrick K. Pang

(510) 286-5566

# Office Chief, Office of Advance Planning

Robert Blanco

(510) 286-5676

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HQ Bridge Program Advisor, Structure Maintenance and Investigation

Larry Moore

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HQ Design Reviewer, Division of Design

# 11. LIST OF ATTACHMENTS

Attachment A Project Map

Attachment B Aerial Photos

Attachment C Advance Planning Studies (APS)

Attachment D Categorical Exemption/Exclusion Determination Sheet

Attachment E Right of Way Data Sheet

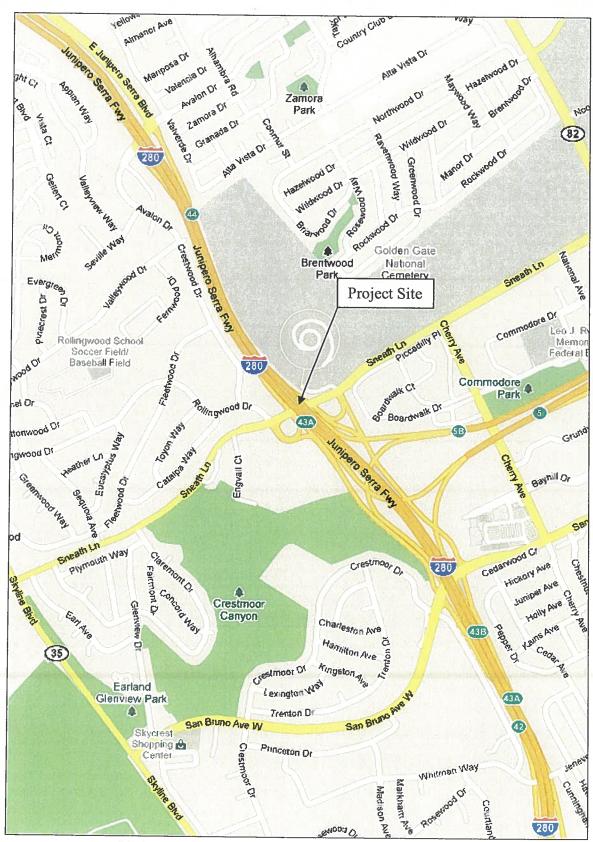
Attachment F Preliminary Project Cost Estimate
Attachment G Storm Water Data Report (SWDR)

Attachment H Strain and BIRIS Reports
Attachment I Risk Management Plan

Attachment J Transportation Management Plan (TMP) Data Sheet

# Attachment A

Project Map



PROJECT MAP for Sneath Lane OC Seismic Retrofit City of San Bruno, SM-280 PM R21.3

# Attachment B

Aerial Photo



# Attachment C

Advance Planning Study (APS)

Indicates Existing Structure Indicates New Construction Point of Min. Vertical Clearance Direction of Traffic SNEATH LANE OVERCROSSING -Type SM Barrier Railing STUDY 280/186 "=20' EA 0G710K IL O DIST COUNTY O4 SM cu 04 1.-8" PLANNING SHEET 1 **@** 1,0-,9 Clase P/F Column Casing HS Rod (Longitudinally - See Sheet 2) HS Rod (Transversely - See Sheet 2) - 6664,000 BRIDGE NO. 35-225 SCALE: 1"=30'/ 1" \* £7.32 "SN" Line Profile Grade 26,-0,, SECTION • [ AREA
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25X CONTINGENCY =
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BRIDGE REMOVAL
STRUCTURE DEPTH
LENGTH 67'-4"± 1" = 10' STRUCTURE BESIGN BRANCH TYPICAL 26'-0"± NOTES DATE 07/12/10 DATE OTAZAO DATE 07/12/10 DATE 07/12/10 1'-8"1 6'-0" Continous Prestressed Box Girder Contour graded Contour graded 10 00 1 DRAWN BY CONTO CONCING CHECKED BY Brion Hori Brion Hori DESTONED BY Nora Ryo -Top of fill EB 285+83.05 -Toe of fill Slope paving 64'-0"3 -c:3\* 285+00 "SM" Line 285+30.66 POT "R6" Line 490+85.25 POT "SN" Line 284+14.07 POT "R6" Line W48 03' 41'4 285+00 105'-0"± 361'-0"± Mecsured along "SN" Line ELEVATION CIDH PILES 284+00 PLAN SN" Line 282+70,01 POT "SN" Line 282+91.23 POT 102,-0,7 TE TE 87'-0"± ગ્રે Top of fill Top of fill Slope paving Toe of fill-Toe of fill-Approx OG Datum Elev. = 150.00' Contour graded Contour groded

DEPARTMENT OF TRANSPORTATION - DIVISION OF STRUCTURES

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0102-435-62 <= 0311074 31**10** 

STATE OF CALIFORNIA -

# de 12"

between girder, DIST COUNTY ROUTE POST MILE HS Rods in each Internal cell SNEATH LANE OVERCROSSING PLANNING STUDY N N cu 04 F SHEET  $\odot$ BRIDGE NO. 35-225 \*\*\* SCALE: 14"=1"-0"", 1"=1" HS P/S Rods SECTION A-A C Bent DESIGNATION STRUCTURE

DATE OFFICE OFFI

# PROBABILISTIC STRUCTURE COST ESTIMATE

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TIMATE		SNEATH LANE OVERCROSSING SEISMIC RETROFIT of PS BOX GIRDER	0G710K 04-0000-1988, K	***	Q)S	NORA KYO
GENERAL PLAN ESTIMATE	Mercado, Joly A. 2000	BRIDGE: SNEATH LA TYPE: SEISMIC RETR CIT:	EA: PROJECT ID:	DESIGN SECTION: # OF STRUCTURES IN PROJECT :	PRICES BY: PRICES CHECKED BY:	QUANTITIES BY:



The Assumption Curves, unless noted otherwise, are modeled with a triangular distribution with the "Minimum, Likeliest and Maximum values."

\$40,000 \$40,600 \$40,607 \$266,728 \$27,300 \$4,300

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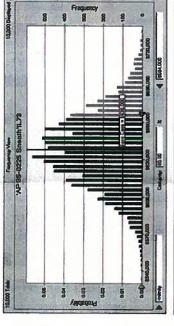
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Highlighted cells represent the quantities and prices that are included in the model. Base Case Estimate is the sum of the "Likeliest" Quantly multipled by "Likeliest" then Price



The estimate ranges generated below were prepared using Crystal Ball software. Crystal Ball software automatically calculates and records the results of thousands of different "what if" cases. Analysis of these scenarios reveals to you the range of possible outcomes, their probability of occurring, the inputs that most impact your model, and where you should focus your efforts.



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5638,000

BASE CASE ESTIMATE

BASELINE ESTIMATE TO MIDPOINT OF CONSTRUCTION

\$637,747

Notes

# Attachment D

Categorical Exemption/ Categorical Exclusion

04-SM-280			CLUSION DETERMINA					
DistCoRte. (or Local	<b>R21.3</b> P.M/P.M.	0G710K	040001					
Agency)	P.IVI/P.IVI.	E.A. (State project)	Federal-Aid Project Proj.					
PROJECT DESCRIPTION:		<del> </del>						
The scope of the project invo County at Post Miles R-21.3. the structure. There will be ad	The scope of work i ditional structural el	s to put new column ements mostly iron t	casings (six columns in to pars longitudinally and tran	tal) to strengthen				
under the bridge deck to retrof CEQA COMPLIANCE (for Sta	te Projects only)	ground disturbance	is anticipated for this proje	ct.				
Based on an examination of th	,	ting information, and	the following statements (	(See 14 CCD 15300 et				
seq.):	io propoddi, dappor	ang mormaton, and	the lowowing statements (	,366 14 CON 13300 Et				
<ul> <li>If this project falls within exe</li> </ul>	mpt class 3, 4, 5, 6	or 11, it does not im	pact an environmental res	ource of hazardous or				
critical concern where design	nated, precisely ma	pped and officially a	dopted pursuant to law.					
<ul> <li>There will not be a significant place, over time.</li> </ul>	it cumulative effect	by this project and s	uccessive projects of the s	ame type in the same				
There is not a reasonable pocircumstances.	ssibility that the pro	oject will have a sign	ificant effect on the enviror	nment due to unusual				
<ul> <li>This project does not damag</li> </ul>	e a scenic resource	within an officially o	lesignated state scenic hic	ihwav.				
<ul> <li>This project is not located or</li> </ul>	n a site included on	any list compiled pur	rsuant to Govt. Code § 659	962.5 ("Cortese List").				
This project does not cause	a substantial adver	se change in the sigi	nificance of a historical res	ource.				
CALTRANS CEQA DETERMI								
Exempt by Statute. (PRC								
Based on an examination of th	is proposal, support	ting information, and	the above statements, the	project is:				
Categorically Exempt. C	ass <u>1</u> . (PRC 2108	4; 14 CCR 15300 et	seq.)					
Categorically Exempt. Go be seen with certainty that (CCR 15061[b][3])	there is no possibil	ity that the activity m	bes not fall within an exeminary have a significant effection.	ipt class, but it can it on the environment				
Howell Chan		Patrick Pa	and					
Print Name: Environmental E	Branch		e: Project Manager/DLA					
Strwell Char	30 August	2011 Engineer	O. I TOJOCK WAITAGENDEN	8/30/11				
Signature	<b>U</b> Date	Signature		Date				
NEPA COMPLIANCE								
In accordance with 23 CFR 771.117, and based on an examination of this proposal and supporting information, the States determined that this project:  • does not individually or cumulatively have a significant impact on the environment as defined by NEPA and is exclude from the requirements to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS), and • has considered unusual circumstances pursuant to 23 CFR 771.117(b)  ( <a href="http://www.fhwa.dot.gov/hep/23cfr771.htm">http://www.fhwa.dot.gov/hep/23cfr771.htm</a> - sec.771.117).  In non-attainment or maintenance areas for Federal air quality standards, the project is either exempt from all conforming requirements, or conformity analysis has been completed pursuant to 42 USC 7506(c) and 40 CFR 93.								
CALTRANS NEPA DETERMIN								
Section 6004: The State	nas been assigned,	and hereby certifies	that it has carried out, the	responsibility to				
make this determination pu	irsuant to Chapter 3	of Title 23, United S	States Code, Section 326	and a Memorandum				
of Understanding (MOU) determined that the project	ris a Categorical Fr	executed between tr	ie Frivva and the State.	ne State nas				
<ul> <li>23 CFR 771.117(d): act</li> </ul>	tivity (d)( 5/)							
Activity listed in the MO	U between FHWA	and the State 🔥 😭	endix A,5					
Section 6005: Based on a that the project is a CE und	an examination of th	is proposal and sup	porting information, the St	ate has determined				
Howell Chan		Patrick Pa	ang					
Print Name: Environmental B	ranch		e: Project Manager/DLA	, ,				
Charles Char	30 Aryu	1,2011 Engineer	m &	8/30/11				
Signature	Uate	Signature		Date				

# CATEGORICAL EXEMPTION/CATEGORICAL EXCLUSION DETERMINATION FORM Continuation Sheet

04-SM-280	R21.3	0G710K	0400001988
DistCoRte. (or Local Agency)	P.M/P.M.	E.A. (State project)	Federal-Aid Project No. (Local project)/ Proj. No.

# **Conditions of Approval:**

# Office of Biological Sciences and Permits:

This project will not require any biological permits.

However these are the constraints that need to be strictly followed during construction.

- 1. Must place exclusion netting over the drainage holes on the bottom of the bridge structure three months before the start of any construction. Funds need to be allocated for the maintenance of the netting during the construction.
- 2. Any staging or storage area identified for the construction of the project must be reviewed by the Biological Sciences and Permits Office to ensure the project will not affect any threatened or endangered species or any wetlands in the project area. The Resident Engineer shall contact the biological monitor no later than 3 days prior to the start of construction-related activities.

# Office of Water Quality, Erosion Control and Environmental Mitigation Branch:

No permits for water quality are needed for the project. Standard BMPs are recommended for the project.

### Office of Cultural Resources Studies:

The project has no potential effect on cultural resources.

### Office of Environmental Engineering:

Hazardous Waste Material:

1. The project will involve minimal soil disturbance in the unpaved area. No soil testing is required for the project.

# SUMMARY OF REQUIRED PERMITS AND ENVIRONMENTAL COMMITMENT -PS&E PHASE

	TO: Robert Blanco		PROJECT I	MANAGER:	: TBD	DATE:	30-Aug-11
	ATTN.: Choon-Jiaw Shih		PROJECT I	ENGINEER:	: TBD	CO. RTE.	SM-280
	OFFICE: Adv Planning		DESIG	N OFFICE:	TBD	EA:	0G710K
						P.N.	400001988
						P.M.	R21.3
	Below is a summary of the required pe	rmits, an	d environmental co	mmitments tha	t must be incorporated into		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	the PS&E, for this project. Please con						
		NSSP Y/N	Responsible Staff	Timing	Action Taken	Name de la constitución de la co	Date
	Require placement of exclusion netting over the drainage holes to prevent use by	Y	Ryan Graybehl @6-	PS&E Phase		****	
	birds or bats as habitat.						
	Require netting to be placed three months prior to construction.	Y	Ryan Graybehl @6- 6071	PS&E Phase			
2	Identify all staging and storage areas. Have functional units assess any areas not previously studied. Prepare re-validation as necessary.	Y	Wahida Rashid @6- 5935	PS&E Phase			
	Ensure requirement for temporary BMPs are included in PS&E and are in place before commencement of project's construction-related activities	Y	Kamram Nakhjiri @6- 5664	PS&E and Const. Phases			
	Require pre-construction survey for listed birds including Swainson's hawk or their nests in the surrounding trees.		Ryan Graybehl @6- 6071	Const. Phase	May be included as direction file rather than as an NSSP.		
	Require restoration of areas in the appropriate season following project construction at that location.	Y	Ryan Graybehl @6- 6071	PS&E Phase			
	RWQCB NPDES requirements	Y	Kamran Nakhjiri (4)6- 5664	PS&E Phase		<del></del>	

OFFICE CHIEF OF ENVIRONMENTAL PLANNING

Attachments

cc: Design, Senior Envir. Plan., File

# Attachment E

Right of Way Data Sheet

T0: Office of	f Advance Planning	Date April 6, 2011 Dist 4 Co SM Rte 280 PM R21.3
Attentio	n: Robert Blanco Branch Chief	EA 0G710K
From: ENID Right	LAU t of Way Resource Manager	Sneath Lane Overcrossing Seismic Retrofit
		D.S. #5901
Subject: Cur	rent Estimated Right of Way Costs	24
We have con we received t	npleted an estimate of the right of way cos from you on March 11, 2011 and the follow	ts for the above referenced project based on maps ving assumptions and limiting conditions.
.[ ] 1,	The mapping did not provide sufficient drequired.	etail to determine the limits of the right of way
[ ] 2.	The transportation facilities have not bee determine the damages to any of the rem	n sufficiently designed so our estimator could ainder parcels affected by the project.
[ ] 3.	Additional right of way requirements are preliminary nature of the early design requirements	anticipated, but are not defined due to the uirements.
[ ] 4.	This estimate does not include \$project, which may affect the total project	right of way costs previously incurred on the tright of way costs for programming purposes.
[ ] 5.	We have determined there are no right of project at this time, as designed.	way functional involvements in the proposed
way requirem freeway agree (PYPSCAN n of the project of condemnat	ents (PYPSCAN node No. 224), necessar ements have been approved. From the dode No. 265), we will require a minimum. Shorter lead times will require either mo	months after we begin receiving final right of y environmental clearance has been obtained, and ate of receipt of final right of way requirements of months prior to the date of certification are right of way resources or an increased number ons may reflect adversely on the District's other
	e	Right of Way Resource Manager
Attachments:		Right of way Resource Manager
[]	Right of Way Data Sheet – Page One (alv Right of Way Data Sheet – All Pages (req acquired) Utility Information Sheet Railroad Information Sheet	vays required) uired when interest in real property is being

01-01-01

EA:

0G710K

Project ID: 400001988 Page 1 of 5

# **RIGHT OF WAY DATA SHEET**

( )								-			9	
TO:	Of	fice of Advanc	ce Planning,	Date	3/30/2	2011	D.S. #	ŧ	:A	901		
		SR II	<u>.</u>	Dist.	04	Co.			Rte 280	PM	21.3	
22				EA	04-0G7	10K (0	400001	- 988)	-	_		•
ATT	N: R	DBERT BLAN	CO	Proje	ct Descri	iption:	Seismic	Retro	fit			
OL ID	ILO.	. D' 14 614		o	-						*	,
1.	JECI		y Data - Alternato y Cost Estimate:	e No.								
		,	, o set Letimate.		Current	Value		Escala	tion		Escalate	ed
	A.	Apprinting to	Catha a Fair	20	(Future	Use)		Rate	9		Value	
	Α.	Damages, and	liding Excess Lands, Goodwill	\$		\$0.00			%	\$_		\$0.00
		Project Permit I	Fees						(#)	\$		\$0.00
		Grantor's Appra	aisal Cost				9			_ \$		\$0.00
28	B.	Utility Relocation	on (State Share)	\$	\$5,0	00.00			%	\$	\$5.0	00.00
	C.	Railroad (from	page 6)			39 10				\$		\$0.00
	D.	Relocation Ass	istance	\$		\$0.00			%	\$		\$0.00
0	E.	Clearance Den	nolition	\$_		\$0.00			%	\$		\$0.00
	F.	Title and Escro	w Fees	\$_		\$0.00			%	<del></del>		\$0.00
	G.	TOTAL ESCAL	ATED VALUE			(a)				\$	\$5,0	00.00
	H.	Construction C	ontract Work	\$_		0.00						
2.	An	icipated Date	of Right of Way	Certific:	ation							
2			in a second of the second of		-							
3.		Parcel Data:	<u>Dual/Appr</u>		<u>Utilities</u>			5 DD I	h			
	Х	-1150	<u> Биандры</u>	U4-1	ounties			None	Ivements		×	,
	Α		₩.	-2				C&M Ag	ırmt			
	В			-3				Svc Cor	nt.		<del></del>	
	С			-4_					Design			
	D	XXXX		U5-7_	6				Const.			
	E F	XXXX		-8_ -9				Lic/RE/0	Clauses			10
								Misc R/\	V Work			
			₩					RAP Dis	spl		0	
	<b>-</b>	0					1	Clear De	emo		0	
	Total	0						Const. F			0	
),,,,	· Dia	ht of Mov						Condem			0	
	_	ht of Way S Screens	41. 1.		cess Par	rcels_		Excess			26	
			711   1	By_	X	10						
Enter	AGR	E Screen (Rail	road Data Only)				Bv					*

Exhibit 01-01-01 EA: 0G710K Project ID: 400001988

Page 2 of 5

4.	Are there Yes	any major	items of co No	nstruction	contract wor (If yes, e.		£		
5.	major imp	general de provements of way requ	critical or s	f the right sensitive p	of way and e arcels, etc.).	xcess la	nds requ	ired(zoninę	g, use,
6.	Is there a Yes	n effect on	assessed v Not Signi		(If yes expla	ain) No		ŧ	ě
7.		facilities or ach Utility I			d? nibit 01-01-05	Yes 5)	ᅜ	No 🎵	
8.	Are railroa If yes, atta	ad facilities ach Railroa	or rights of d Informati	f way affect on Sheet I	eted? Exhibit 01-01	Yes -06)	Г	No 🔽	
9.	Yes		None evi	dent 🔽	n hazardous al Handbook				
10.		displaceme ovide the fo	•		Yes [	7	No j	₹	
	No. of sing	gle family		No. o	f business/no	on profit		®/	
	No. of mu	lti-family		No. o	f farms				
	anticipated	Draft / Fina that suffic rt Housing.	cient replace	n Impact S ement hou	Statement / S Ising will / wil	study dat I not be	ed avaialabl	, it e without	is
11.	Are materi (If yes, exp	ial borrow a	and / or disp	oosal sites	required?	Yes	Г	No <sup>®</sup>	ᅜ
12.	Are there (		linquishme	nts / aban	donments?	Yes	Γ	No	ᅜ
13.	Are there a		g and/or po	tential Airs	pace sites?	Yes	_	No	F

			Page 3 of
14.	Are there Environmental Mitigation costs? Yes (If yes, explain)	No .	V
15.	Indicate the anticipated Right of Way schedule and lead time requir if District proposes less that PMCS lead time and / or if significant p project advancement are anticipated.)	ements. ressures	(Discuss for
	PYPSCAN lead time (from Regular R/W to project certification)	6	months.
16.	Is it anticipated that all Right of Way work be performaed by CALTR Yes   No   (If no, discuss)	≀ANS sta	ff?

Project ID:

EA:

01-01-01

0G710K

5

400001988

01-01-01

EA:

0G710K

Project ID:

400001988 Page 4 of 5

# **Assumptions and Limiting Conditions**

• This data sheet was completed without a hazardous waste/materials report.

•	Information on th provided by		eet was based on maps ert Blanco on March 11, 2011.
	Evaluation Prepa	red By:	Renata Frey
	Right of Way:	Name	Rouata Frey Date 3/30/4
	Railroad:	Name	Pat 5-30-1
	Utilities:	Name	Date 3/3/11
			Recommended for Approval:
			Right of Way Capital Cost Coordinator

I have personally reviewed this Right of Way Data Sheet and all supporting information. It is my opinion that the probable Highest and Best Use, estimated values, escalation rates, and assumptions are reasonable and proper subject to the limiting conditions set fourth, and find this Data Sheet complete and current.

Chief, R/W Appraisal Services
4/5/1/
Date

cc: Program Manager Project Manger

01-01-01

EA:

0G710K

Project ID:

400001988 Page 5 of 5

# **UTILITY INFORMATION SHEET**

1.	Utility owners located within project limits: Sewer, water, gas, electric, telephone, cable	
2.	Facilities potentially impacted by project (if known, include Owners(s) & facility type(s)):	
3.	Anticipated Workload:	
4.	Additional information concerning anticipated utility involvements (include limiting condition and a narative addressing likelihood that conflicts will occur);	ıs
	Involves possible relocation of electric transmission facilities (If X'd, Data sheet should be forwarded to environmental)	
0.	PMCS input information	
	U4-1Owner Expense Involvements	
	U4-2  State Expense Involvements (Conventional, No Fed Aid)  U4-3  State Expense Involvements (Freeway, No Fed Aid)  U4-4  State Expense Involvements (Conventional or Freeway, Fed Aid)	
	U5-7 6 Verifications - without involvements U5-8 Verifications - 50% involvements U5-9 Verifications resulting in involvements	
	NOTE: The sum of U-4's must equal the sum of $\frac{1}{2}$ of the U5-8's and all of the U5-9's.	
	ESTIMATED STATE SHARE OF COSTS \$ 5,000 (reserved for potholing)	
)	Perepared by: Elizabeth Engle  Right of Way Utility Coordinator  Right of Way Utility Coordinator	
	U	

# Attachment F

Preliminary Project Cost Estimate

		District-County	-Route	04-SM-280
			PM	R21.3
			EA	0G710K
			Program Code	SHOPP 201.113
PROJECT DESCR	RIPTION:	Seismic Retrofit on Sneath L	ane OC	
Limits:		On Interstate 280 in the City	of San Bruno	
Proposed Improve	ment (Scope):	Retrofit Column and Box Gir	<u>der</u>	
	SUMMAI	RY OF PROJECT COST ES	TIMATE	
TOTAL R	OADWAY ITI	EMS	\$	504,000
TOTAL S	TRUCTURE IT	TEMS	\$	664,000
SU	BTOTAL CO	NSTRUCTION COSTS	\$	1,168,000
TOTAL R	IGHT OF WAY	Y ITEMS	\$	5,000
TO	OTAL PROJEC	T CAPITAL OUTLAY COST	rs \$	1,173,000
Reviewed by:Fu	k Nyan Kurnia	wan, Program Advisor (Signat	Date: ure)	
Approved by Pa	trick K. Pang. I	Project Manager (Signa	Date: _	

DIST-CO-RTE: 04-SM-280

PM: R21.3 EA: 0G710K

Program Code: SHOPP 201.113 I. ROADWAY ITEMS Section 1 - Earthwork Quantity Unit Unit Price Item Cost Section Cost Roadway Excavation Imported Borrow Clearing & Grubbing 1 <u>LS</u> 10,000 **Develop Water Supply** Top Soil Reapplication <u>1</u> <u>LS</u> 10,000 Stepped Slopes and Slope 1 LS 10,000 Rounding (Contour Grading) Subtotal Earthwork \$ 30,000 Section 2 - Pavement Structural Section Quantity Unit Unit Price Item Cost Section Cost PCC Pavement (\_\_\_Depth) PCC Pavement ( Depth) Asphalt Concrete Lean Concrete Base Cement Treated Base Aggregate Base Treated Permeable Base Aggregate Sub-Base Pavement Reinforcing Fabric **Edge Drains** Subtotal Pavement Structural Items \$ Section 3 - Drainage Quantity Unit Unit Price Item Cost Section Cost Large Drainage Facilities Remove Inlet Storm Drains **Pumping Plants** Project Drainage (X-Drains, overside, etc.) Subtotal Drainage \$

DIST-CO-RTE: 04-SM-280

PM: R21.3

EA: 0G710K

Program Code: SHOPP 201.113

# **Section 4- Specialty Items**

	Quantity	Unit	Unit Price	Item Cost	Section Cost
Retaining Walls					
Noise Barriers					
Barriers and Guardrails	<u>1</u>	<u>LS</u>		\$ 50,000	
Equipment/Animal Passes					
Water Pollution Control				\$ 10,000	
Hazardous Waste Investigation	<u>1</u>	<u>LS</u>		\$ 10,000	
and/or Mitigation Work					
Environmental Compliance	<u>1</u>	<u>LS</u>		\$ 10,000	
Resident Engineer Office Space					
Place AC (Miscellaneous Area)					
Remove MGBR					
Remove AC Dike					
Concrete Barriers (Type 60)					
Temporary Railing (Type K)					
Crash Cushion (Adiem)					
Electrical/Safety/Support Work					
Permanent Erosion Control					
Prepare Storm Water Pollution Prevention Plan (SWPPP)		4			

Subtotal Specialty Items \$

80,000

# Section 5 - Traffic Items

	Quantity	Unit	Unit Price	Item Cost	Section Cost
Lighting					
Traffic Delineation Items				\$ 10,000	
Traffic Signals					
Overhead Sign Structures					
Roadside Signs					
Traffic Control Systems	1	<u>LS</u>		\$ 60,000	
Transportation Management Plan	<u>1</u>	LS		\$ 80,000	
Temporary Detection System					
Staging	<u>1</u>	<u>LS</u>		\$ 36,000	
Constuction Area Signs	<u>1</u>	<u>LS</u>		\$ 20,000	

Subtotal Traffic Items \$ 206,000

				DIST-CO-RTE	:: 04-SM-280		
				PM: R21.3			
	7.5			EA: 0G710K			
				<b>Program Code</b>	SHOPP 201.113		
Carda C Dia da Livia							
Section 6 - Planting and Irrigation							
	Quantity	Unit	Unit Price	Item Cost	Santian Coat		
Highway Planting	Qualitity	Oint	Ollit Frice	item Cost	Section Cost		
Replacement Planting							
Irrigation Modification							
Relocate Existing Irrigation							
Facilities							
Irrigation Crossovers							
		-					
		St	ibtotal Plantin	ototal Planting and Irrigation \$			
Section 7 - Roadside Mgmt & Safety	Section						
Section / Atomosius Magnitus Surety	<u>occion</u>						
	Quantity	Unit	Unit Price	Item Cost	Section Cost		
Vegetation Control Treatments							
Gore Area Pavement							
Pavement beyond the gore area							
Miscellaneous Paving							
Erosion Control							
Slope Protection							
Side Slopes/Embankment Slopes Maintenance Vehicle Pull outs							
Off-freeway Access (gates, stairways, etc.)							
Roadside Facilities (Vista Points,							
Transit, Park and Ride, etc.)							
Relocating roadside facilities/features							
Š							
		Subtotal Ro	adside Mgmt d	& Safety Section	<u> </u>		
		то	TAL OF SEC	TIONS 1 thru 7	\$ 316,000		
		10	TAL OF SEC	110115 1 till 4 /	310,000		
Section 8 - Minor Items							
				Unit Cost	Section Cost		
					Section Cost		
Subtotal Section 1-5	\$	316,000	x 10% =	\$ 31,600			
			Subto	tal Minor Items	\$ 31,600		

DIST-CO-RTE: 04-SM-280 PM: R21.3 EA: 0G710K Program Code: SHOPP 201.113 Section 9 - Roadway Mobilization Subtotal Section (1-7) \$ 316,000 Minor Items (8) \$ 31,600 Sum (1 - 8) \$ 347,600 x 10% = \$34,760Total Roadway Mobilization \$ 34,760 **Section 10 - Roadway Additions** Supplemental Work Subtotal Sections (1-5) \$ 316,000 Minor Items (6) 31,600 Sum (1-6) 347,600 x 10% =\$ 34,760 Contingencies Subtotal Sections 1-5 316,000 Minor Items (6) 31,600 Sum 347,600 x 25% =\$ 86,900 Total Roadway Additions \$ 122,000 TOTAL ROADWAY ITEMS (Total of Sections 1-10) \$ 504,000 Estimate Prepared by: Date: \_\_\_\_\_ Print Name Phone No. Estimate Checked by: Date: \_\_\_\_ Print Name Phone No.

DIST-CO-RTE: 04-SM-280

PM: R21.3

EA: 0G710K

**Program Code:** SHOPP 201.113

# II. STRUCTURES ITEMS

Bridge Name
Structure Type
Width (out to out) - (ft)
Span Lengths - (ft)
Total Area - (ft2)
Footing Type (pile/spread)
Cost Per ft2
(incl. 10% mobilization
and 20% contingency)
Total Cost for Structure

Cost							
Structure 1	Structure 2	Structure 3	Structure 4				
<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>				
<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>				
<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>				
<u>\$0</u>	\$0 \$0 \$0 \$0 \$0 \$0	<u>\$0</u>	<u>\$0</u>				
<u>\$0</u>	<u>\$0</u>	<u>\$0</u>	<u>\$0</u>				
<i>\$0</i>	\$0	\$0	\$0				

<sup>\* -</sup> Includes 10% mobilization and 25% contingency

Subtotal Structures Items

\$0

Railroad Related Costs

<u>\$0</u>

Subtotal Railroad Items

<u>\$0</u>

# \*TOTAL STRUCTURES ITEMS -

\$ 664,000 (From APS)

(Sum of Structures plus Railroad Items)

Comments:

<sup>\*</sup> This amount is the total cost of structures including 10% mobilization and 25% contingency.

DIST-CO-RTE: 04-SM-280

PM: R21.3

EA: 0G710K

Program Code: SHOPP 201.113

# III. RIGHT OF WAY ITEMS

	Current Values (Future Use)		 calation Rates	Escalated Values
Acquisition, including Execss Lands	\$	-	 	
Utility Relocation (State Share)	\$	-		
Relocation Assistance	\$	_		
Clearance/Demolition	\$	-		
Tittle and Escrow Fees	\$	-		
TOTAL RIGHT OF WAY			\$ 5,000	

# Attachment G

Storm Water Data Report (SWDR)

	Dist-County-Route:04-SM-28	0	
	Post Mile Limits:21.3		
	Project Type: Seismic Retrofi		
	Project EA:0G710K		
	Program Identification:20.xx.		
	Phase: ⊠ PID	<del></del>	
Caltrans*	☐ PA/ED		
	☐ PS&E		
Regional Water Quality Control Box	ard(s): Region 2 San Francisco		
Is the project required	d to consider incorporating Treatment BMPs?	Yes □	No ⊠
<ol><li>Does the project distu</li></ol>	urb 5 or more acres of soil?	Yes □	No 🖂
	urb more than 1 acre of soil and not qualify fo		
the Rainfall Erosivity V		Yes □	No 🖾
	ntially create permanent water quality impac		No 🗵
<ol><li>Does the project requ</li></ol>	ire a notification of ADL reuse	Yes □	No 🛛
Estimate Construction Start Date: Separate Dewatering Permit (if yes Erosivity Waiver	March 2014 Construction Complets, permit number) Yes ☐ Permit #_ Yes ☐ Date:		No 🖂
Licensed Person. The Licensed Pe	ata Report has been prepared under the directors attests to the technical information connclusions, and decisions are based. Profession	tained herein ar	nd the data
	Choon-jean think		9/14/20
	Choon Jiaw Shih, Registered Project Engine		Date
	I have reviewed the stormwater quality des report to be complete, current and accurat	_	ind this
[Stamp Required for PS&E only)	Norman Gonsalves, District/Regional SW C	og// Coordinator	<i>y                                      </i>

#### 1. Project Description

The project is a Seismic Retrofit Project which will fortify the Sneath Lane Overcrossing bridge by installing steel rods in the deck and steel jackets around the bent columns.

Sneath Lane Overcrossing: Sneath Lane Overcrossing is a continuous pre-stressed box girder bridge. Sneath Lane OC was built in 1971, has 4 spans and is 360 feet ling. There are three Cast in Drilled Hole (CIDH) pile bents on which six concrete columns support the bridge span.

Caltrans will reinforce the Sneath Lane Overcrossing by installing reinforcement in the bridge deck and on the supporting columns which will provide tensile support that the bridge currently lacks. Hardened Steel (HS) rods will be drilled and secured lattitudinally and longitudinally between each cell. The rods will reinforce the bridge by acting in tension in a seismic event. A class P/F column casing will secure the bents of the bridge and the off ramp. The column casing is essentially a steel jacket which is secured around a bent to add tensile strength. There will be no disturbed or reworked soil at the Sneath Lane Overcrossing.

There will be no disturbed soil area, no reworked area and no added impervious area.

The project lies in the San Mateo Bayside region, specifically Hydrological Sub Area 204.40 and drains into the San Francisco Bay, Central. The San Francisco Bay Central is on the Environmental Protection Agency (EPA) 303d list of impacted water bodies and has a Total Maximum Daily Load (TMDL) for Mercury.

#### 2. Construction Site BMPs

A WPCP will be used since the project disturbs less than an acre of soil. Construction site management will be included as a separate bid line item. Other construction Best Management Practices (BMPS) are being considered such as Street Sweeping and Concrete Washout.

#### 3. Required Attachments

Vicinity Map
Evaluation Documentation Form
District 4 Construction Concurrence Memo



DATE: 09-12-2011_	
Project EA:0G710K	

NO.	CRITERIA	YES ✓	NO 🗸	SUPPLEMENTAL INFORMATION FOR EVALUATION	
1.	Begin Project Evaluation regarding requirement for consideration of Treatment BMPs	✓		See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs. Go to 2	
2.	Is this an emergency project?	11	✓	If <b>Yes</b> , go to <b>1</b> 0. If <b>No</b> , continue to <b>3</b> .	
3.	Have TMDLs or other Pollution Control Requirements been established for surface waters within the project limits? Information provided in the water quality assessment or equivalent document.		~	If Yes, contact the District/Regional NPDES Coordinator to discuss the Department's obligations under the TMDL (if Applicable) or Pollution Control Requirements, go to 9 or 4.  (Dist./Reg. SW Coordinator initials)  If No, continue to 4.	
4.	Is the project located within an area of a local MS4 Permittee?	✓		If Yes. (San Mateo), go to 5.  If No, document in SWDR go to 5.	
5.	Is the project directly or indirectly discharging to surface waters?	✓		If Yes, continue to 6. If No, go to 10.	
6.	Is it a new facility or major reconstruction?		✓	If Yes, continue to 8. If No, go to 7.	
7.	Will there be a change in line/grade or hydraulic capacity?		1	If Yes, continue to 8. If No, go to 10.	
8.	Does the project result in a <u>net</u> increase of one acre or more of new impervious surface?		<b>✓</b>	If Yes, continue to 9.  If No, go to 10.  (Net Increase New Impervious Surface)	
9.	Project is required to consider approved Treatment BMPs.		Evaluati	See Sections 2.4 and either Section 5.5or 6.5 for BMP Evaluation and Selection Process. Complete Checklist T-1 in this Appendix E.	
10.	Project is not required to consider Treatment BMPs. (Dist./Reg. Design SW Coord. Initials)(Project Engineer Initials)(Date)	✓		nt for Project Files by completing this form, sching it to the SWDR.	

1 See Figure 4-1, Project Evaluation Process for Consideration of Permanent Treatment BMPs

#### Memorandum

Flex your power! Be energy efficient!

To:

NORMAN GONSALVES

District Storm Water Coordinator

Office of Water Quality

Date: February 7, 2011

File:

From:

**DEPARTMENT OF TRANSPORTATION - District 4** 

Office of Construction Environmental Engineering Support

Subject: Division of Construction Concurrence with Storm Water Data Reports for WPCP Projects

This memo provides concurrence with your office's determination on Storm Water Data Reports for those projects that only require a Water Pollution Control Program (WPCP). However, WPCP projects that are located in environmentally sensitive areas or over a water body will still require review by my office.

The Office of Construction Environmental Engineering Support will review and provide input to all projects requiring a Storm Water Pollution Prevention Plan (SWPPP). Please ensure that adequate review time is provided for each of these projects.

If you have any comments or questions regarding this concurrence, please contact me at (510) 867-6007.

Thank You.

DRAGOMIR BOGDANIĆ, PE Senior Transportation Engineer

Dist 4 Construction Storm Water Coordinator

# Attachment H

STRAIN and BIRIS Report

# Office of Structure Maintenance and Investigation California Department of Transportation

# STRUCTURE REPLACEMENT AND IMPROVEMENT NEEDS REPORT

81 of 115

Page

SMS15010

MAY, 2011

District : 04

Bridge Number :	35 0204F	Total Length: 109.1		Permit Rating: PPPPP	Suff Rating :	95.00
Feat Intersected: STATE ROUTE 1	STATE ROUTE 1	Total Width: 12.5		Rail Rating : 0000	Approach Width:	11.9
Stucture Name :	: SOUTH CONNECTOR OC (S1-S35 CONNECTOR)	Location :	Location : 04-SM-001-R46.65-DLC	DIC		
Item Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank	
1 04/12/2004	62 - Railing-Upgrade	6 years	\$396,880	0 8-Ten Year Pla	1.80	
Project Details :						
1 Replace the	Replace the right bridge rail.					

69.50

Permit Rating: PPPPP Rail Rating : 1000

15.8

Approach Width: Suff Rating :

FUNCTIONALLY OBSOLETE

Tech. rank

1-Initiated

\$1,106,000 Cost

Status

Urgency Factor Location

SNEATH LANE OVERCROSSING

Feat Intersected: INTERSTATE 280

: 35 0225

Bridge Number

2 years

70 - Seismic-Retrofit

Project Type

Item Recom. Date

Stucture Name

Project Details : 03/28/2007

04-SM-280-R21.3-SBR

Total Width: 20.1 Total Length: 110

Columns flare steel into superstructure, non-ductile columns. Priority 4. Final Score 0.875. Н

Bridge	Bridge Number : 35 0240	35 0240	Total Length: 84.7		Permit Rating:	Suff Rating :
Feat	Intersected:	Feat Intersected: STATE ROUTE 1	Total Width: 3		Rail Rating : NNNN	Approach Width:
Stucti	ure Name :	Stucture Name : SAN JOSE AVENUE POC	Location :	: 04-SM-001-R44.04-PFA		
Item	Item Recom. Date	Project Type	Urgency Factor	Cost	Status	Tech. rank
П	07/01/2002	80 - Bridge-Replace	2 years	\$400,000	8-Ten Year Pla	35.66
7	07/01/2000	AD - ADA Compliance Work	6 years		8-Ten Year Pla	23.66
Proje	Project Details :					

cosmetic in nature and will not prevent further deterioration of the bridge. Replacement of the structure should be considered as The repairs recommended are This structure is saturated with salt and severely deteriorated due to the marine environment. soon as possible.

This structure has been identified as needing Americans with Disabilities Act (ADA) compliance work. Consult the District ADA coordinator for information on required modifications.

## California Department of Transportation Division of Maintenance

#### Structure Maintenance and Investigations

 $\mathbf{B}_{\text{RIDGE}}$ 

INSPECTION

RECORDS

Information

System

The requested documents have been generated by BIRIS.

These documents are the property of the California Department of Transportation and should be handled in accordance with Deputy Directive 55 and the State Administrative Manual.

Records for "Confidential" bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.



#### DEPARTMENT OF TRANSPORTATION

Structure Maintenance & Investigations

Bridge Number : 35 0225 Facility Carried: SNEATH LANE

: 04-SM-280-R21.3-SBR Location

: SAN BRUNO City

Inspection Date: 06/29/2010

Inspection Type Bridge Inspection Report

Routine FC Underwater Special Other Х

STRUCTURE NAME: SNEATH LANE OVERCROSSING

CONSTRUCTION INFORMATION

Year Built : 1971 Year Widened: N/A Length (m) : 110

Skew (degrees): 26 No. of Joints : 0 No. of Hinges : 0

Structure Description: CIP/PS box girder (9 cell) on RC (2) column bents and RC diaphragm abutments. The bents are founded on 1.82 m diameter concrete piles

and the abutments are founded on 45 ton concrete piles.

Span Configuration :1 @ 26.2 m, 2 @ 32.0 m, 1 @ 19.2 m

LOAD CAPACITY AND RATINGS

Design Live Load: MS-18 OR HS-20

Inventory Rating: 32.6 metric tonnes Operating Rating: 99.8 metric tonnes

Calculation Method: LOAD FACTOR Calculation Method: LOAD FACTOR

Permit Rating : PPPPP

Posting Load : Type 3: <u>Legal</u>

Type 3S2: Legal

Type 3-3:Legal

DESCRIPTION ON STRUCTURE

Deck X-Section: 0.3 m br, 1.8 m sw, 15.8 m, 1.8 m sw, 0.3 m br

Total Width: 20.1 m Net Width: 15.8 m No. of Lanes: 4

Rail Description: Type 5 M barrier

Rail Code : 1000

Min. Vertical Clearance: Unimpaired

DESCRIPTION UNDER STRUCTURE

Facility Name	Func Class	Lanes	Horiz Clr (m)	Vert Clr (m)
STATE ROUTE 280	11	9	25.70	5.18
SB 280 OFF-RAMP	14	· 2	15.20	5.26
E380 TO N280 ON-RAMP	<b>14</b>	1	10.80	5.33

Channel Description: This structure is not over a waterway.

#### CONDITION TEXT

WORK DONE

The deck has been treated with methacrylate under Contract No. 04-1E4204.

REVISIONS

ELI element #358, Deck Crack Smart Flag, has been upgraded to State 1.

CONDITION OF STRUCTURE

There are alligator cracks sized up to 0.07" wide with wheel ruts in the eastbound AC approach pavement at Abutment 5. The AC is now breaking up in the eastbound lanes and is cracking in the westbound lanes.

Printed on: Tuesday 09/14/2010 12:14 PM 35 0225/AAAF/18931

#### CONDITION TEXT

The AC approach at Abutments 1 and 5 is breaking up.

There are longitudinal cracks with efflorescence visible in the bottom right and left sides of the box girder near both abutments. The cracking is sized up to 1/32" wide and spaced at about 3' on center. The same type of cracks are visible in all spans.

There are diagonal deck cracks which are propagating from both abutments. They range in size from hairline to 1/16" wide and are spaced from 6" to 12" on center. The cracks are now filled with methacrylate.

There is a large, 1/16" wide transverse crack all the way through the concrete along the top of the slope paving at Abutment 5 extending the entire width of the abutment. The panel is offset vertically approximately 3". A portion of the top section of the slope paving at the left side of Abutment 5 is broken due to the erosion of the soil underneath the concrete paving.

There is a 0.04" wide transverse crack along the top of the slope paving at Abutment 1. The lower right panel of the slope protection at Abutment 1 is offset vertically 2".

#### LOAD CAPACITY

The load ratings for this structure are under review, and the results will be issued in a subsequent report.

#### MISCELLANEOUS

The accessible horizontal and vertical clearances beneath the structure were measured at the time of the inspection and were compared with the current vertical clearance diagram dated 2/15/2000. The measurements were recorded on a revised clearance diagram that is included with this report. The vertical and horizontal clearances have been revised in the database accordingly.

	MKN7 em	: INSPECTION RATINGS Element Description	Env	Total Qty		Qt St. 1		h Condi St. 3	tion Sta St. 4	te St. 5
101	12	Concrete Deck - Bare	2	1750	sq.m.	1750	. 0	0	0	0
101	104	P/S Conc Closed Web/Box Girder	2	110	m.	105	. 5	0	0	
101	205	Reinforced Conc Column or Pile Extension	2	6	ea.	6	0	0	0	0
101	215	Reinforced Conc Abutment	2	37	m.	37	0	0	0	0
101	227	Reinforced Conc Submerged Pile	2	1	ea.	1	0	0	0	0
101	252	Cast-In-Drilled Hole Concrete	2	1	ea.	1	0	0	0	0
		Pile								
101	256	Slope Protection	2	2	ea.	0	1	1	0	٥
101	335	Other Bridge Railing	2	243	m.	243	0	0	0	0
101	358	Deck Cracking	2	1	ea.	1	0	0	0	

2 YEARS

#### WORK RECOMMENDATIONS

RecDate: 07/24/2007

EstCost:

Repair the AC approach at Abutment 1.

Action : Appr. Roadway-Repair

StrTarget:

,...

Work By: DISTRICT

DistTarget:

Status : PROPOSED

EA:

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#### WORK RECOMMENDATIONS

RecDate: 03/28/2007

Action : Seismic-Retrofit

Work By: STRAIN

Status : INITIATED

DistTarget:

StrTarget: 2 YEARS

0G710K

EstCost: \$1,106,000

Columns flare steel into superstructure, non-ductile columns. Priority 4. Final

Score 0.875.

RecDate: 07/13/2001

Action : Appr. Roadway-Repair

Work By: DISTRICT

Status : PROPOSED

EstCost:

StrTarget: 2 YEARS

DistTarget:

EA:

The AC approach pavement at Abutment 5 has severe cracks parallel with the

bridge deck. Seal the cracks in the AC

Repair the slope paving at Abutment 1 and

approach.

RecDate: 06/18/1993

Action : Sub-Misc.

Work By: DISTRICT

Status : PROPOSED

EstCost:

StrTarget: 2 YEARS

DistTarget:

EA:

Inspected By :

AW.Corker/R.Odell

Registered Civil Engineer



#### STRUCTURE INVENTORY AND APPRAISAL REPORT

	**************************************		***********
(1)	STATE NAME- CALIFORNIA 069		SUFFICIENCY RATING = 69.5
(8)	STRUCTURE NUMBER 35 0225		STATUS FUNCTIONALLY OBSOLETE
(5)	INVENTORY ROUTE (ON/UNDER) - UNDER All002800		HEALTH INDEX 99.4
	HIGHWAY AGENCY DISTRICT 04		PAINT CONDITION INDEX = N/A
men	COUNTY CODE 081 (4) PLACE CODE 65028		******* CLASSIFICATION ******** CODE
	FEATURE INTERSECTED- INTERSTATE 280	(112)	NBIS BRIDGE LENGTH- YES Y
			HIGHWAY SYSTEM- ROUTE ON NHS 1
	FACILITY CARRIED SNEATH LANE LOCATION 04-SM-280-R21.3-SBR		FUNCTIONAL CLASS- INTSTAT PRIN ART URBAN 11
	MILEPOINT/KILOMETERPOINT 321.3		DEFENSE HIGHWAY- NOT STRAHNET 0
	BASE HIGHWAY NETWORK- PART OF NET 1		PARALLEL STRUCTURE- NONE EXISTS N
	LRS INVENTORY ROUTE & SUBROUTE 000000028001		DIRECTION OF TRAFFIC- 2 WAY 2
			TEMPORARY STRUCTURE-
			FED.LANDS HWY- NOT APPLICABLE 0
	LONGITUDE 122 DEG 26 MIN 05.6 SEC BORDER BRIDGE STATE CODE \$ SHARE \$	FC	DESIGNATED NATIONAL NETWORK - NOT ON NET 0
			TOLL- ON FREE ROAD 3
(99)	BORDER BRIDGE STRUCTURE NUMBER		MAINTAIN- STATE HIGHWAY AGENCY 01
	****** STRUCTURE TYPE AND MATERIAL *******		OWNER- STATE HIGHWAY AGENCY 01
(43)	STRUCTURE TYPE MAIN: MATERIAL- PRSTR CONC CONT		HISTORICAL SIGNIFICANCE- NOT ELIGIBLE 5
	TYPE- BOX BEAM OR GIRDER - MULTI CODE 605	(37)	MOT BEIGHT
(44)	STRUCTURE TYPE APPR:MATERIAL- OTHER/NA		*********** CONDITION ********** CODE
	TYPE- OTHER/NA . CODE 000	(58)	DECK 7
(45)	NUMBER OF SPANS IN MAIN UNIT 4	(59)	SUPERSTRUCTURE 7
(46)	NUMBER OF APPROACH SPANS 0	(60)	SUBSTRUCTURE 7
	DECK STRUCTURE TYPE- CIP CONCRETE CODE 1	(61)	CHANNEL & CHANNEL PROTECTION N
	WEARING SURFACE / PROTECTIVE SYSTEM:	(62)	CULVERTS
			AAAAAAAA TORD DAWNA AAAAAAA CODG
	TYPE OF WEARING SURFACE- NONE CODE 0 TYPE OF MEMBRANE- NONE CODE 0		******** LOAD RATING AND POSTING ******* CODE
	TYPE OF DECK PROTECTION- NONE CODE 0		DESIGN LOAD- MS-18 OR HS-20 5
	********* AGE AND SERVICE *********		OPERATING RATING METHOD- LOAD FACTOR 1
(27)			OPERATING RATING- 99.8
	YEAR BUILT 1971 YEAR RECONSTRUCTED 0000		INVENTORY RATING METHOD- LOAD FACTOR 1
			INVENTORY RATING- 32.6
(42)	TYPE OF SERVICE: ON- CONNECTOR OC / 2ND I 6 UNDER- HIGHWAY W/WO PEDESTF 1		BRIDGE POSTING- EQUAL TO OR ABOVE LEGAL LOADS 5
(28)	LANES: ON STRUCTURE 04 UNDER STRUCTURE 09	(41)	STRUCTURE OPEN, POSTED OR CLOSED- A
	AVERAGE DAILY TRAFFIC 156000		DESCRIPTION- OPEN, NO RESTRICTION
(30)	YEAR OF ADT 1998 (109) TRUCK ADT 5 %		********* APPRAISAL *********** CODE
	BYPASS, DETOUR LENGTH 6 KM	(67)	OMDITAMINAL WINTERS AND
127	********* GEOMETRIC DATA **********		DECK GEOMETRY 4
(40)			UNDERCLEARANCES, VERTICAL & HORIZONTAL 3
	LENGTH OF MAXIMUM SPAN 32.0 M STRUCTURE LENGTH 110.0 M		WATER ADEQUACY N
	III.O M		APPROACH ROADWAY ALIGNMENT 8
	CURB OR SIDEWALK: LEFT 1.8 M RIGHT 1.8 M	, ,	TRAFFIC SAFETY FEATURES 1000
	BRIDGE ROADWAY WIDTH CURB TO CURB 15.8 M		SCOUR CRITICAL BRIDGES N
	DECK WIDTH OUT TO OUT 20.1 M	,	·
	APPROACH ROADWAY WIDTH (W/SHOULDERS) 15.8 M		******* PROPOSED IMPROVEMENTS ********
	BRIDGE MEDIAN 0 MEDIAN 0		TYPE OF WORK- SUP/SUB REHAB CODE 35
	SKEW 26 DEG (35) STRUCTURE FLARED NO	(76)	LENGTH OF STRUCTURE IMPROVEMENT 110 M
	INVENTORY ROUTE MIN VERT CLEAR 5.18 M	(94)	BRIDGE IMPROVEMENT COST \$2,213,000
	INVENTORY ROUTE TOTAL HORIZ CLEAR 25.7 M	(95)	ROADWAY IMPROVEMENT COST \$442,600
	MIN VERT CLEAR OVER BRIDGE RDWY 99.99 M	(96)	TOTAL PROJECT COST \$3,717,840
	MIN VERT UNDERCLEAR REF- HIGHWAY 5.18 M MIN LAT UNDERCLEAR RT REF- HIGHWAY 1.9 M	(97)	YEAR OF IMPROVEMENT COST ESTIMATE 2010
	MIN LAT UNDERCLEAR RT REF- HIGHWAY 1.9 M MIN LAT UNDERCLEAR LT 2.9 M	(114)	FUTURE ADT 252300
,507		(115)	YEAR OF FUTURE ADT 2029
	************** NAVIGATION DATA **********		************** INSPECTIONS ***********
	NAVIGATION CONTROL- NOT APPLICABLE CODE N	(90)	INSPECTION DATE 06/10 (91) FREQUENCY 24 MO
	PIER PROTECTION- CODE		CRITICAL FEATURE INSPECTION: (93) CFI DATE
	NAVIGATION VERTICAL CLEARANCE 0.0 M		FRACTURE CRIT DETAIL- NO MO A)
	VERT-LIFT BRIDGE NAV MIN VERT CLEAR M		UNDERWATER INSP- NO MO B)
(40)	NAVIGATION HORIZONTAL CLEARANCE 0.0 M		OTHER SPECIAL INSP- NO MO C)

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35 0225/AAAF/18931

# Attachment I

Risk Management Plan

# 9/13/201gement Program for Sneath Lane OC 5 24 11.xisn

Control of the cont	$\vdash$	DIST- EA		04-0G710K	×	Project Name: S	Project Name: Seismic Retrofit for Sneath Lane OC	200	Project Manager:							Date Created:	Last Undated	_
Fig. 20   Fig. 3   Fig. 4			ı			Co.Rte.PM: S	an Mateo County I-280/PM R.	21.3	Telephone:								rasi Opualeu.	
The control of the	_		Threat / Opport-unity	Category	Date Risk Identified	Risk Discription	Root Causes	Primary Objective	Overall Risk Rating	Cost/Time Impact Value	Risk Owner	Risk Trigger	Strategy	Response Actions wi	Adjusted Cost/Time		Status Date and Review	
The complete   E.M.   Coffeet   Belogical averable area   Cheight   Third   Cheight   Third   Conference   Cheight   Third   Thi	-10	ā	9	(p)	(6)	W	(B)	( <del>B</del> )	n	(0)	(6)	8		Top & cons			Comments	
Adjain   The state   Continue   Chief   Solution   Solution   Continue   Chief   Chi		RELIGIES							Contractive.				Ê	(L)	0	(a)	(a)	
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Active         Threat         CON         0517111         Community rejection to laine         SCOPE         Long         PM         Conflict with community         MITIGATE         change work schedule           Active         Threads a Medical community         Threads a Medical community         MITIGATE         change work schedule			100			HEXI SHOPE			5			Project not a priority	Accept			PREPARE DRAFT		
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Active Threat CON 0617111 Community rejection to lane Design SCOPE Low (10-16%) Find Community rejection to lane Design SCOPE Low (10-16%) Find Community rejection to lane Design SCOPE Conflict with community MITIGATE charge work schedule Find Community rejection to lane Conflict with community rejection to lane Conflict w	-	No. of Street, or other Persons and Street, o		-					robab									-
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Project Risk Register

# Attachment J

Transportation Management Plan (TMP) Data Sheet

#### Memorandum

То:	Barry Loo District 4 Traffic Manager	Date: 3.	/11/2011
From:	Robert Blanco, District Branch Chief Office of Advance Planning, PSR II		
Subject:	Request for Transportation Management Plan	n Data Sheet.	
	Project Data		
	PROJECT MANAGER (Name) Nick Saleh PROJECT ENGINEER (Name) Frank Shih DIST-EA: 0G710K PROJECT COMMON NAME	(Calnet#) (510) 286-6355 (Calnet#) (510) 622-1666 PROGRAM (HB1, HE11, etc.): Bridge Reha. (201.113)	
	Seismic Retrofit CO-RTE-PM (KP): Sneath Lane OC (SM-280-PM R 21.3) LEGAL DESCRIPTION:  DETAILED WORK DESCRIPTION:		
	Install casing for Sneath Lane OC.  CONSTRUCTION COST ESTIMATE: 0.8  PROJECT PHASE: PSSR □	millions  PR  PS&E	%
A)	Traffic Impact Description  The Project includes the following: (Check applicable type of facility closures)  ☐ Highway or freeway lanes ☐ Highway or freeway shoulders ☐ Freeway connectors		
B)	<ul> <li>□ Freeway off-ramps</li> <li>□ Freeway on-ramps</li> <li>□ Local streets</li> <li>Major operations requiring traffic control and</li> </ul>	l working days for each	
	Operation  ☐ Clearing and grubbing  ☐ Existing feature removal  ☐ Excavation of embankments construction  ☐ Structural section construction  ☐ Drainage feature construction	# of working days20	- - -

	<ul> <li>□ Structures construction</li> <li>□ MBGR/Barrier construction</li> <li>□ Striping</li> <li>□ Electrical component construction</li> <li>□ Other</li> <li>Total days requiring traffic control</li> </ul>	80
C.	Project staging description and # of working	days required per stage:
	Stage Description  1Retrofit the Sneath Lane OC  2  3  4.	# of working days per stage80
D.	Have you considered any construction strates	gies that can restore existing number of lanes?
	<ul> <li>□ Temporary Roadway Widening Structur Yes No</li> <li>□ Lane Restriping (Temporary narrow land Roadway Realignment (Detour around widen Median and/or Right Shoulder Utilizatio Use of HOV lane as a Temporary Mixed Staging alternatives (Explain below)</li> </ul>	if "yes", notify Project Manager e widths) vork area) n
	Attachments	
	<ul> <li>Fact Sheet of the project</li> <li>As-Builts</li> <li>Location Maps</li> <li>Advance Planning Study</li> </ul> _Frank Shih	510 622-1666
	Project Design Engine	Contact Phone Number
	_Robert Blanco Senior Engineer	

# TRANSPORTATION MANAGEMENT PLAN DATA SHEET (Preliminary TMP Elements and Costs)

Co/Rte/PM	SM-280,PMR 21.3 EA 0G710K Project F	ngineer Frank Shih
Project Limit	Sneath Lane OC (SM-280-PM R 21.3)	
Project Descrip	tion Seismic Retrofit. Install casing for Sneath Lane OC.	
1) Publ	lic Information	
	a. Brochures and Mailers	\$5,000
	□ b. Press Release	
	c. Paid Advertising	\$
	d. Public Information Center/Kiosk	\$
	e. Public Meeting/Speakers Bureau	
	f. Telephone Hotline	
	g. Internet, E-mail	10
	h. Notification to impacted groups	
	(i.e. bicycle users, pedestrians with disabilities, others.	)
	i. Others	\$
2) Moto	orist Information Strategies	
	a. Changeable Message Signs (Fixed)	\$
	b. Changeable Message Signs (Portable)	\$5,000
	c. Ground Mounted Signs	\$10,000
	d. Highway Advisory Radio	\$
	e. Caltrans Highway Information Network (CHIN)	
	f. Detour maps (i.e. bicycle, vehicle, pedestrianetc)	
	g. Revised Transit Schedules/maps	
	h. Bicycle community information	
	i. Others	
		Ф
2) Inoid	ant Managament	\$
3) med	ent Management  a. Construction Zone Enhanced Enforcement	
	Program (COZEEP)	\$60,000
	b. Freeway Service Patrol	\$
	c. Traffic Management Team	Ψ
	d. Helicopter Surveillance	\$
	e. Traffic Surveillance Stations	<u> </u>
	(Loop Detector and CCTV)	\$
	f. Others	\$

### TMP Data Sheet (cont.)

4) Construction Strategies		
a. Lane Closure Chart		
b. Reversible		
c. Total Facility Closure		
d. Contra Flow		
e. Truck Traffic Restrictions  f. Reduced Speed Zone  g. Connector and Ramp Closures  h. Incentive and Disincentive  i. Moveable Barrier		•
		\$
		\$
		_
		\$
		\$
k. Others		
5) Demand Management		\$
	Ramps (New or Convert)	
b. Park and Ride Lots c. Rideshare Incentives d. Variable Work Hours e. Telecommute f. Ramp Metering (Temporary Installation) g. Ramp Metering (Modify Existing) h. Others		\$
		\$
		\$
		\$
		\$
6) Alternate Route Strategies		\$
a. Add Capacity to Freeway Connector		
b. Street Improvement (widening, traffic signal etc)  c. Traffic Control Officers  d. Parking Restrictions  e. Others		\$
		\$
		\$
7) Other Strategies		\$
a. Application of New Technology e. Others  \$		
		\$
		\$
TOTAL ESTIMATED COST OF TMP ELEMENTS =		\$80,000
Please note that any change in project scotheet request.	ope, schedule, or cost will require resu	bmittal of TMP Data
PREPARED BY	I only Dissi	
	Polika i leskolova	DATE <u>3/23/11</u>
APPROVAL RECOMMENDED BY Shein Lin DATE 3/23/11		